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Liew, Choong-Chin

<120> Method for the Detection of Gene Transcripts in Blood and Uses
Thereof

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<150> US

<151> 2000-01-04

<150> US 60/115,125

<151> 1999-01-06

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<170> PatentIn version 3.2

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 gggtttcccg gggaacccaa cccttaagg ggtngggggg aatttcccc caaaaaaagg 120

25 gaaaaanttt tccggggggc ccaccggga agggntnccg gggaagg 168

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30 <212> DNA
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cccacatttc cattttaat atatacttg cttacaaat attataatat gttttaa 180

40 atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaa ataagcattc 240

tttgaatata tatttagttt ttaattgtg taggaaatc aaagccagag ggagtagaaa 300

caaaatttgt gattttctaa atacttctg gctgcaggga agaaaccacg tcccaggcga 360

45 agtcctacct aatttgatga taaaattaca tggaagggat tctgttggc atgaggacct 420

accaagatgg tcaacaga

438

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 15 aaagggggaa ggcccccaa accggggggg gggnaaaaag gtgggtttcc cccttttcc 180
 aattcccaa accaatttc aaaaggnaaa ccaacnttc ccaaatggg aaagg 235

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45 caaattgggg ggnaaaccaa atttaagggg ggaagggggg gnccccccg ggaaaggccc 180

aaggggggaa aatttttccg ggggtgggtn gggggaacca atttaagggg ggggcccccg 240

gggggggttcc ccttgggcn tttttcttt tgggtnaaaa aaaaaaaccc cttg 294

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aagttaate cctgggttct aactaccctt actgtcactt agcttaacct gcctccaatc 120

15
 ctgtacttga actctaaaac tgttgagaa actcagtgt taccccaaca gattcatttc 180

aaatagctgt aaaaggtatg ttactccag aagaccagag ttgcttctt tgaacttctc 240

20 attccttggg cctaggaacc ctcatcacc tcateccaac gtcaaccag atcttctctt 300

ccataaacag cactccctca ggcccctgcc tgacacaggc atagactgtc atgttgatt 360

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tttaggcggc accccaacaa caccaggccc tactttttcc aaggncgggg aagcccatgg 180
45 gtcttgggna acgggcaatg cgggcttgca acgggnggaa naaaaacagn cccaaaagaa 240

tg 242

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tctcagctca ctgcaacctc cacctctcag gagaattgct gaacctggga ggcggaggtt 120

15 gcagggagct gagattgcgc cactgccctc catcctgggc gacagagcaa gaacctgtct 180

c 181

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ataatggaag atagctntga ggatnaacnc tggtnaggg 100

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 cggaaggcc nttggggaaa aaaccaangg ncaaaccccc ccaaccacnc ggcccccccc 120
 15 aaggggggtg gggaagagcc aaatttcttt gggaanaac gccccttgg ggaaaanaag 180
 gccaacacc tttaacanc cccaangcg nggaagccat ttcttg 227
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 30 ggaagaattg tatgtgggag ttttaatgg ttcatttca ttggctataa ctcaattaca 180
 aggagaaata taactgcaga ggagcttga aaatttagtt cagctgaggg taaaggaaga 240
 35 agagacaaat ttgtcatca gctagtgatc tgccatacaa ggtgttcct taatatgtgt 300
 agaatg 306
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ggattaatta gacagcaaga cgcttgcggc ccctttggcg cgaacgaacn ncgaaaagga 420

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acgagccggg ctggagcggg gggaaaagca aatgtaggca taagtaacga caatgcgggc 120

45 gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta 180

gtcgggtact aaggcgtag cgaaggcgaa gcgccgatgt gaaggggggtt aatattctc 240
cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag 300
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agtgggtgaa acgccagcgc atggcaaccc gtaccgcaaa ccgacacagg tagccggggg 420
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gctggaaggc ttgnagggca gaaaagggat ccgcctttgg gaggaacca ggtaaggttt 120

aagaaggaac ccacctngg ggccaaacaa aaacttaaaa acccccccat ttentncccc 180
20 ccaaaaaaaaa aatttttaaa aaaaattttt ngcccccggg ggcattgggg g 231

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attcggcacg agggattaca gtcgtgagcc actgcacctg gctgcaatt 109

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tgnaatacta ttgcctctta tatacacnac caannntgcg aagggnann nnaccttnc 180

cantnnnctg gggncaccn nnnngaact gagagtggat ctgtgtacc tgacnnacca 240

20 gntntnnagn agggcgctca ctctgattgg tgcacatgg ttacacagtg tgtgcaaaga 300

ccngnctatc tcaactganga tgattgncag ngccnntggg tggcacnang ggnactgatg 360

25 ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnatat 420

aggttaccnc cttnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa 480

ntctntcnct ataggeatga ttttnncag tgcgtcagcc tganaanga ancnnacttt 540

30 tgntagatga nnnngtgctc ncccttgngg ctnacaaatt ccancacct tggtggcngc 600

agccnttaag ancactntt ttgggtgctg cntttgatg aattacnaat agnntgttt 660

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caagtacgcn agcncatgaan ctaaagcaag caagaaaaag 100

10 <210> 54

<211> 515

<212> DNA

<213> Human

15 <400> 54

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20 tagatatggg aagattatag gaggcgacaa ctaccgagcc tggatgatgc tgggtgtcaa 180

gaagagtctt agttcattta ttggcccag aaccctctaa tccccttgta attatgtca 240

agaggaacag ctctttggac actggaaaac cgtgagagag taagatttac acccttaggg 300

25 gcctaatagc agccaccatt aagaaagcgt tcgtccaca cccactacct aaaaatcgaa 360

tataactgac tctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt 420

30 ataagtaacc tgaaaacatt ctctctgca taagccctgc gttggattat atcctgcact 480

gacaattaac tgccccaata tctacaatcc aaccc 515

35 <210> 55

<211> 176

<212> DNA

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 cntatctcaa ctaatnataa atgggaaaat gggcaactgg gcaggcngaa cccagaggga 120
 40 agcctgcctt cattagacca agacagcaag gttncctg gtcactagat gaaatt 176

<210> 56
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 45 <212> DNA
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<220>
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 <223> n is a, c, g, or t

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 10 atgtgggatg tgacctccta ggactcacct tgcacagctg ggtgcagcag ggataggtaa 120
 ggatttgggg ttagaggta caattgcctt ttatggta gagaaaggtc ctggggctgg 180
 15 agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct 240
 gcttaaaggg ctgtgtcagt tctattgtaa acaccaactt aaagtgggtg atgctggcag 300
 acattgttat tgccatt 317
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<210> 57
 <211> 209
 <212> DNA
 25 <213> Human

<400> 57
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 30 ctggactgga cactgtatac ccacatgcaa gatgaagttg gcccttaca tctatacgc 120
 aggagaattg cgtcatttaa agcctgttga cgctttctc ccgcagacga atggaaagat 180
 taattgggag tgggggctga acaattcg 209
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<210> 58
 <211> 262
 <212> DNA
 40 <213> Human

<400> 58
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 45 acctgtgcac cgagttgcga accagcctcc aatatgtgga accctgtact ctctaaaaat 120

caaatcacgg gcatggagat tgcgcctgtg gtcccaaat actcgggctg ggacacgatg 180
 agttgcttgg cccaaggaag gaggggttga tggctgatca cactggtcg cctgggtgac 240
 5 agagcgagac tccatctcta at 262

 <210> 59
 <211> 430
 10 <212> DNA
 <213> Human

 <400> 59
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 15 aaacctttat tgtcttacag gggggaacta gcgcggggct gaataaaacc ttggccctt 120
 cccgggggag gggatatccg ttataaacc ccaagggtat ttcttagca aaatacttaa 180
 20 aaccggccgg ggttttata caaactggga acccactttt gaaaaattt ggccttttga 240
 tctgggatgg gaatatgagt ttatatacat ttcatcttct ttggggcaa aggcccgtt 300
 aagtattccc cccggggggg cctttacaaa aagggcgggt taaaagctt ttgggcccc 360
 25 ctagggaatt gtttaacac ctaaaaccc ctgcttcct taaagggcg ttcttaatt 420
 tgggggcggc 430
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 atcctactag cttggaggat ttgaaccgat tatgaatacg caatactccc ggtcctcatg 120
 40 tatcatgtgt aagcccatct cctgggaggg ctacatact accatctcca aggagaggca 180
 tgattccgaa tcaccacag acagctcgat caccatacgt atacccaac atatatact 240
 45 tctaagactt gctagaaaca accaccacat ttgatgctta atcaccactc tgacgcgat 300

taaagtgagg ggactctcct aatttctgta agttgatttt tgcattctga 350

<210> 61

5 <211> 515

<212> DNA

<213> Human

<400> 61

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aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt 180

15 taaaaaggat tcattagtgt aaaaaatgtg atgtagatac atgaataaaa taaaatcttg 240

aagtagatcc aaatatacat ggtcagattg aatacaataa agatggcatc gtagcagtgg 300

20 agaaaagaag aattatttca taaaccttgt tggaatggct aggcaatcat ctggaaaaaa 360

atgaagtga ataataaaaa tatattctac actagcacia attataaata aagcagtga 420

ttaaatgaga aaaattaaat cataatgatt tcaaagataa cataggataa tttctttata 480

25 gtcttctaaa atatatgact ttatgaattc tgact 515

<210> 62

30 <211> 611

<212> DNA

<213> Human

<400> 62

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aataatccac cagatacaag ttgcatcaa ctctgtgaa atatttttt tcctttttgt 180

40 tgggcatttt tatggtctaa atatagaatg accaatgcct ctagaacaaa ctgacctgg 240

tcagtgttat caagaagcag actgtttctt actttctttg tatttcctta ctattttaa 300

45 tttgttaaaa ttgatattt gatataaaa acttcttttg ccagtgttgg tggcacacgc 360

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agtctacaga gcaagttcca ggtcagccaa ggctatatat agaaactctg gcatgaaaaa 480

5 ccaaccaaac caaaccaaac caaaccagac cagaccagac cagaccagac caaaccaaac 540

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cagaccaaac t 611

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<210> 63

<211> 291

<212> DNA

15 <213> Human

<400> 63

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20 taatgcgaat ataactctc ttctttttgc atggtcttgc ccagcctctg caatactgat 120

gaacacatgc tgaagatcat ctaactcaat atggcgcata ttctatgtc ttgctgcca 180

ggacatagga caacttcgtc gctcactagt tctaacatat taatgctggc gtaggtggag 240

25 aactactgca catatactct tactcggagg ctgaggcacg aggatcactt g 291

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30 <211> 309

<212> DNA

<213> Human

<400> 64

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tatatttcaa atgtcttget aacagtgggt actttgctct atccttagct atacgtctcg 180

40 aggcacattg ttctctatg ccccgctacg ctttgccta gagctcggcg gtatctatat 240

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45 ctgattaga 309

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 5 <213> Human

 <400> 65
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 10 tggaataaag tggaatagac tcgaatggaa tggaatgcaa tggaatggac tcgaatggaa 120
 agggatggaa tggactcgaa gggaatggaa tggaatggat tcgaatggaa aggaatggaa 180
 tggactcaaa aggaatggaa tggaatggac tcaaatggaa tggactcgaa ttgaatgaaa 240
 15 tgtaatggaa tagactcgaa tggaatggaa cgaaattt 278

<210> 66
 20 <211> 142
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 <213> Human

 <400> 66
 25 agttctcctt aggttaatta atggaatgca atcccaatga aaatgtcacc aaagttgttt 60
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 atagctagta aactccccct gt 142

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 35 <213> Human

 <400> 67
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 40 aaagatgatc tctcatgct tccatgcact gcgagtagaa gacatactga gcatagtgtg 120
 attattttcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc 180
 ccacattttt ttctacttgc tccaatagca ctaacaaata ggaagctctt gcttgctccc 240
 45 caaagctcca ttcccttgaa agcagaagtg taatattact tcttag 286

<210> 68
 <211> 179
 5 <212> DNA
 <213> Human

 <400> 68
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 10 tagaagtcac tatTTtatta taaacatgt ggattagata tttcattta tgtgattaaa 120
 ctttctaaac aaagattata tgaattatct taaagattta aaaagtaatt aagttaaT 179
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 30 cttcagtcta agaacgtaaa tccatggaag aattttaagc aggggtgtgc cttgaccaca 120
 tttgaattc taaactgtct ctgggtgggt gtgggtgccca ccaagagcat gtgttcatgt 180
 agggagactg gttttttaca gttgtctatg agagagatga cagttgcctg gattatgggtg 240
 35 gtgacattgg agataagcag gtagacagat tctcagtgtg ttaggagaga aaaatcaata 300
 ggaaatttaa aataaataat taactgtggc cataggagga aggagtcttt gggttnggtt 360
 40 ctcaatttct gcatgagaaa aaaggtggac 390

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 45 <212> DNA
 <213> Human

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 5 <222> (26)..(26)
 <223> n is a, c, g, or t

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 10 gatgacataa aatgagatga aatgagatgt aatgatggaa tgagatgaga tgaaatgaga 120
 tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg 180
 15 agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat 240
 gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaaatga gagatgaaat 300
 gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga 360
 20 tgagatgaca tgaaataatg aatgaaatt gaaatgagat aagatacgag ctgagatgca 420
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 25 g 481

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 cacag 125

 20 <210> 72
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 35 aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga 180
 cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaaata tgacatgaaa 240
 40 tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa 300
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 catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga 420
 45 tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga 473

<210> 73
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 5 <212> DNA
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 <223> n is a, c, g, or t

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 aaatgaaatt agatgaaatg taatgagatg aaatgaaatg acctaataa atgaaataat 120

 gaaatgagat gaaataaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa 180
 30 tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga 240

 gatgaaatga tgagatgaga tgaaatatga tgagttgaaa tgacataatg aatgaaatga 300
 35 tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga 360

 aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaat 420

 aatgaaatga tgaaataatg aaatgaaaat gaaatggaaa tgatgagatg agaagaaatg 480
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<210> 74
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<213> Human

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<223> n is a, c, g, or t

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10 <221> misc_feature

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<223> n is a, c, g, or t

<400> 74

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tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgatgatat gaaatgatga 120

cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa 180

20 tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg 240

aatgatgaaa tgaaatgatg agatgagatg atgaaatgaa atggtgagat gaaatgatg 299

25

<210> 75

<211> 155

<212> DNA

<213> Human

30

<400> 75

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taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga 120

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tgagatgaca tgaaataatg aaacgaaatt gaaat 155

<210> 76

40 <211> 367

<212> DNA

<213> Human

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cgccatgaaa ttctgctcg attagcttac gttgttgga tagaggcaa acaaggctgt 180

45 tatcggtagc aggaatggat gttcgatttc gtagaatacg cctgagagac ggccaatact 240

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga 300

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30 tcagtgtttg gggtttattt taaaagaat aggggtccac cagatgttct ttagtggagg 180

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 30 tattacaaa atattggac cattantaaa gantagggcc aaccnaatt ttcttgaaa 180
 ttccgttaa atagccgta aatgtttta cccattcat attggatacc ttaaattata 240
 35 ataatggatt ttattgttaa attgtgtgtg tgtggtgtgt atgccctgtc ttctctctc 300
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30 ccaataaaaa aaacntttt ggaaangggg aaa 213

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gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg 180

15 aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat 240

gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa 300

20 tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa 360

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 ntagggacct gctctataag cccatcataa ttattatga agttataaca agtaaacag 180
 taaggtatgt ggcatggaat agagaaccca gaaacagacc caatgcatgg gtacaggata 240
 30 taacacaggg aaatgaggga caatatatgg ttctgggata attattata tggggaaaat 300
 aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaactg 360
 35 catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg 420
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15 aggaaggaag gaagg 135

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 aacttcctca gaaggacaag agacaaagaa gtggggggagg ccctcctatc catagctgag 180
 35 agggtttatt ctttgtggtt ctgctgtcag agcctttgga tgtctgatct gagatggagc 240
 aaccccagct agacagaact ttgtagattt tgggggggtt aaaaggcctc aagcaaattc 300

40 taaaactttc ttgaacccc ctggcatagg ctgagtttcc ctgact 346

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 45 <212> DNA
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<400> 85

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5 gaaaagaaaa tggtttttt tgccgaaatc aaccgggtaa 100

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tcttttacc cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg 180

35 ttaaccatcg caatcgccga ccgagtttaa ggaccactcc ccaccttct cattagttaa 240

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40 ttttctaag cgtagcgcgt ctactccaat gtttcgtta atccagccc aactaacgcc 420

gcggaggagt cgatccgtct actcctatcc cgtcggctcg gatttactac aggagctaag 480

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 5 <213> Human

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 aggaacgaac ccccttcat taccacggtc ccgcgtccgc ctcttctcc attcgcaaca 240
 15 gttctattcc ttacagctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa 300
 gatagcaaag attaccagc ttctattcct cgccccagag ccgagtaaatt cgaagtttat 360
 20 agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa 420
 tataaactta atgtccctt tattctcccg gacgcccctt ttaaccatt ctctctatct 480
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 aaaaaaaagg taaancccc ccctttttt ttgggttggg gtgggaaaat tttgggaanc 240
 45 cttaaccccc gggtttttgg gtttttttg ccaaaacccc ccggaaaaaa attaaaaaaa 300

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15 taaaatatat gcaaccctcc attcaagga agtatgatgt tactagatta tctgaaaatt 180

ctcct 185

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40 atgggnaant ttnnnngggg ggggggaaaa ancccnnggg tnannggggg ccnngggntt 180
naaannggn nctngggggg ggaaantttt ggccccccc cgggggnttt nctnaaaaa 240
aaancnttt naaanacngn nanaatttn cnnnnncggg gagngngga nntttttt 300
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ccntnnanc ntgggnnttt ttagncctn aaaaaaangc naatnttaag gtaaaaatn 420

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ntnnanctnc ngntnaacat cacagctnct ccnagcatca ccctgctagn tancngnggg 180
30 ttttctetta tntgngngcn naacatctgc nngctctgnt annaanaatt ncataccgcn 240
canngtctnt gacgntgtga tgcatacgnt tgggcagagn gancaatang tgngcatatg 300
35 cgtgccttac ncaaggatac ggangngctt gaaattgatg ngaccaanan ttnngtacg 360
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atgagatgat gaaataaaat gatgaaatga gatgtgatga gatgaaatga ngagatgaaa 180

40 tgatgagatg agatgacatg aaataaatga aataatgaaa tcgaaatgag atgagaagat 240

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gaaaaaatga aatgaaataa tgaaatgagg tgaaattaaa tgagatgatg aaattaaatg 480
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10 ntaaatgnga tgaattaatg atgagatgaa atgntgaatg ccgggggtgnn tgagatgaat 720
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gaaatgaaat gatgaaatga atagatgtga catgaaatga gctgaaatga tgagatcaaa 180
30 tgaaatgaaa tgagattaaa tgatgagatg aaaactgatg aaaacttaaa tgatgaaata 240
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 30 ngaggaagac cc 132

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 aaaaatagat aatggtaatc caagcacgat ggtagccatc actctaattg ctttgggggtt 180
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